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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	select\$4 with (search adj filter) same (defect error malfunction)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 15:18
L2	30	user with crash with report	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 15:19
L3	7	search same pane with (search adj filter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 15:19
L4	11	resolution with (software application) with (error defect malfunction) same developer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 15:19
L5	4	present\$4 with developer with (error defect) with application	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 15:23
L6	7	user with crash with report same (aggregat\$4 group\$4 combin\$4 statsitics)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 15:24
S46	2	"7036049".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 10:43

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2	private near8 shar\$4 near7 ((work adj flow) (work\$flow))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:43
L3	29	((work adj flow) (work\$flow)) near5 model near7 view\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:29
L4	1	((work adj flow) (work\$flow)) near6 rout\$4 near3 task near6 series	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:30
L5	9	((work adj flow) (work\$flow)) near6 (private confidential) near6 task\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:44
L6	6	((work adj flow) (work\$flow)) near7 view\$4 near8 task and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:46
L7	22	((work adj flow) (work\$flow)) same (((virtual adj task) (actual adj task)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:34
L8	9	(combin\$4 aggregat\$4) near7 ((work adj flow) (work\$flow)) same (abstract\$4 generaliz\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:06
L9	25	aggregat\$4 with workflow with model	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:31

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L10	19	workflow with state with transition same depend\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:48
L11	9	virtual adj workflow	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:31
L13	1	private near8 shar\$4 near7 ((work adj flow) (work\$flow)) and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:29
L14	4	((work adj flow) (work\$flow)) near5 model near7 view\$4 and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:30
L15	1	((work adj flow) (work\$flow)) near6 rout\$4 near3 task near6 series and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:30
L16	3	virtual adj workflow and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:31
L17	1	workflow with state with transition same depend\$6 and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:31
L18	5	aggregat\$4 with workflow with model and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:59

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L19	5	((work adj flow) (work\$flow)) same (((virtual adj task) (actual adj task)) and (717/102 717/104 709/205 715/751 715/753)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/26 16:34
L23	1	private near8 shar\$4 near7 ((work adj flow) (work\$flow)).clm.	US-PGPUB	OR	ON	2007/09/26 16:44
L25	1	((work adj flow) (work\$flow)) near6 (private confidential) near6 task\$4. clm.	US-PGPUB	OR	ON	2007/09/26 16:46
L26	11	((work adj flow) (work\$flow)) near7 view\$4 near8 task.clm.	US-PGPUB	OR	ON	2007/09/26 16:47
L28	2	aggregat\$4 with workflow with model.clm.	US-PGPUB	OR	ON	2007/09/26 16:59

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

1. **Design of an Automatic Workflow Modeling Method in Cooperative WFMS**
Yan Li; Yuqiang Feng;
[Computer Supported Cooperative Work in Design, 10th International Conference on May 2006](#) Page(s):1 - 6
Digital Object Identifier 10.1109/CSCWD.2006.253260

[Abstract](#) | [Full Text: PDF\(5627 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)
2. **A framework for dynamic routing and operational integrity controls in a workflow management system**
Kumar, A.; Zhao, J.L.;
[System Sciences, 1996., Proceedings of the Twenty-Ninth Hawaii International Conference on, Volume 3, 3-6 Jan. 1996](#) Page(s):492 - 501 vol.3
Digital Object Identifier 10.1109/HICSS.1996.493245

[Abstract](#) | [Full Text: PDF\(864 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)
3. **A workflow editor and scheduler for composing applications on computational grids**
Kadav, A.; Aggarwal, S.K.;
[Parallel and Distributed Systems, 2006. ICPADS 2006. 12th International Conference on, Volume 2, 12-15 July 2006](#) Page(s):6 pp.
Digital Object Identifier 10.1109/ICPADS.2006.30

[Abstract](#) | [Full Text: PDF\(192 KB\)](#) [IEEE CNF](#)
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4. **Gridflow description, query, and execution at SCEC using the SDSC matrix**
Weinberg, J.; Arun Jagatheesan; Ding, A.; Faerman, M.; Hu, Y.;
[High performance Distributed Computing, 2004. Proceedings. 13th IEEE International Symposium on, 4-6 June 2004](#) Page(s):262 - 263
Digital Object Identifier 10.1109/HPDC.2004.1323557

[Abstract](#) | [Full Text: PDF\(252 KB\)](#) [IEEE CNF](#)
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5. **A Workflow for Robot Assisted Neurosurgery**
Da Liu; Tianmiao Wang;
[Intelligent Robots and Systems, 2006 IEEE/RSJ International Conference on, Oct. 2006](#) Page(s):2870 - 2875
Digital Object Identifier 10.1109/IROS.2006.282075

[Abstract](#) | [Full Text: PDF\(5180 KB\)](#) [IEEE CNF](#)
[Rights and Permissions](#)
6. **Dynamic access control through Petri net workflows**
Knorr, K.;
[Computer Security Applications, 2000. ACSAC '00. 16th Annual Conference 11-15 Dec. 2000](#) Page(s):159 - 167
Digital Object Identifier 10.1109/ACSAC.2000.898869

[Abstract](#) | [Full Text: PDF\(600 KB\)](#) [IEEE CNF](#)
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7. Hierarchical Dependence Graphs for Dynamic JDF Workflows

Sun, Tong; Walker, John;
Systems, Man and Cybernetics, 2006. ICSMC '06. IEEE International Conference on
Volume 4, 8-11 Oct. 2006 Page(s):2747 - 2752
Digital Object Identifier 10.1109/ICSMC.2006.385289

[Abstract](#) | Full Text: [PDF\(2178 KB\)](#) IEEE CNF

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8. Process Mining, Discovery, and Integration using Distance Measures

Joonsoo Bae; Ling Liu; Caverlee, J.; Rouse, W.B.;
Web Services, 2006. ICWS '06. International Conference on
Sept. 2006 Page(s):479 - 488
Digital Object Identifier 10.1109/ICWS.2006.105

[Abstract](#) | Full Text: [PDF\(288 KB\)](#) IEEE CNF

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9. Physical Performance and Clinical Workflow of a new LSO HI-REZ PET/CT Scanner

Jakoby, B.W.; Bercier, Y.; Watson, C.C.; Rappoport, V.; Young, J.; Bendriem, B.; Townsend, D.W.;
Nuclear Science Symposium Conference Record, 2006. IEEE
Volume 5, Oct. 29 2006-Nov. 1 2006 Page(s):3130 - 3134
Digital Object Identifier 10.1109/NSSMIC.2006.356538

[Abstract](#) | Full Text: [PDF\(560 KB\)](#) IEEE CNF

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10. A Comparison of two Decision Support Systems Designed for a Dispatching Problem

Cutrona, C.S.; Pratsch, C.; Valcarengh, C.; Welter, A.; Buarque de Macedos Guimaraes, L.; Guerlain, S.;
Systems and Information Engineering Design Symposium, 2006 IEEE
April 2006 Page(s):146 - 151
Digital Object Identifier 10.1109/SIEDS.2006.278729

[Abstract](#) | Full Text: [PDF\(7403 KB\)](#) IEEE CNF

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Relevance scale

1 Merging application-centric and data-centric approaches to support transaction-oriented multi-system workflows

Y. Breitbart, A. Deacon, H.-J. Schek, A. Sheth, G. Weikum
September 1993 **ACM SIGMOD Record**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: [pdf\(683.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Workflow management is primarily concerned with dependencies between the tasks of a workflow, to ensure correct control flow and data flow. Transaction management, on the other hand, is concerned with preserving data dependencies by preventing execution of conflicting operations from multiple, concurrently executing tasks or transactions. In this paper we argue that many applications will be served better if the properties of transaction and workflow models are supported by an integrated ar ...

2 Research sessions: potpourri: Workflow management with service quality guarantees

Michael Gillmann, Gerhard Weikum, Wolfgang Wonner
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Workflow management systems (WFMS) that are geared for the orchestration of business processes across multiple organizations are complex distributed systems: they consist of multiple workflow engines, application servers, and communication middleware servers such as ORBs, where each of these server types can be replicated on multiple computers for scalability and availability. Finding an appropriate system configuration with guaranteed application-specific quality of service in terms of throughput ...

3 The matrix and beyond: expanding proactive resources for customers

Mo Nishiyama, Leslie J. McNeil, Holly E. Wyatt
November 2006 **Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06**

Publisher: ACM Press

Full text available: [pdf\(152.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

At Oregon Health & Science University (OHSU), essential duties of the Information Technology Group (ITG) include providing support for a diverse customer base. Faculty, staff, students, volunteers, visiting scholars, interns, vendors, and community healthcare partners all rely on ITG's Customer Relations Management Division (CRMD) for resolving their computing and account access issues. In a dynamic support environment where many of the customer roles falls outside the one-size-fits-all support ...

Keywords: communication, customer service, electronic documentation, knowledge management, portals, role-based matrix, workflow improvement

4 A semi-automatic system with an iterative learning method for discovering the leading indicators in business processes

Wei Peng, Tong Sun, Philip Rose, Tao Li

August 2007 **Proceedings of the 2007 international workshop on Domain driven data mining DDDM '07**

Publisher: ACM Press

Full text available: [pdf\(539.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Within Business Intelligence (BI) systems, a Key Performance Indicator (**KPI**) is a measurement of how well the organization, or a specific individual or process within that organization, performs an operational, tactical, or strategic activity that is critical for the current and future success of that organization [1]. The **leading indicators** are one type of KPIs that present key drivers of business value, are predictors of future outcomes, and offer the organization the unique o ...

5 An approach to workflow modeling and analysis

Hemant Kr. Meena, Indradeep Saha, Koushik Kr. Mondal, T. V. Prabhakar

October 2005 **Proceedings of the 2005 OOPSLA workshop on Eclipse technology eXchange eclipse '05**

Publisher: ACM Press

Full text available: [pdf\(441.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a new approach to workflow analysis. We model the workflow using Activity diagrams, convert the Activity diagrams to Petri nets and use the theoretical results in the Petri nets domain to analyze the equivalent Petri nets and infer properties of the original workflow. We have demonstrated the possibility by developing an Eclipse plug-in, which can be used to model workflows using Activity Diagrams and then analyze these workflow models using Petri nets.

Keywords: Eclipse, Petri nets, activity diagrams, workflow, workflow analysis

6 Dynamic change within workflow systems

Clarence Ellis, Karim Kedara, Grzegorz Rozenberg

August 1995 **Proceedings of conference on Organizational computing systems COCS '95**

Publisher: ACM Press

Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamic change is a large and pervasive unsolved problem which surfaces within office systems as well as within software engineering, manufacturing, and numerous other domains. Procedural changes, performed in an ad hoc manner, can cause inefficiencies, inconsistencies, and catastrophic breakdowns within offices. This paper is concerned with dynamic change to procedures in the context of workflow systems. How can we make workflow systems more flexible and open? We believe that part of the a ...

7 WIDE workflow development methodology

L. Baresi, F. Casati, S. Castano, M. G. Fugini, I. Mirbel, B. Pernici

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The development of workflows (WFs) for complex organizations to be interfaced with existing information systems requires a specific methodological approach to guarantee benefits and effectiveness of the final results. In fact, the WF should be well integrated in the organization both from the technical and the organizational point of view. While the characteristics of the Workflow Management System (WFMS) platform adopted in the implementation are relevant to establish the boundary between the w ...

Keywords: exceptions, patterns, triggers, workflow design

8 Technical papers: Evaluation of a workflow scheduler using integrated performance modelling and batch queue wait time prediction

Daniel Nurmi, Anirban Mandal, John Brevik, Chuck Koelbel, Rich Wolski, Ken Kennedy
November 2006 **Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC '06**

Publisher: ACM Press

Full text available:  pdf(313.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

 html(2.21 KB)

Large-scale distributed systems offer computational power at unprecedented levels. In the past, HPC users typically had access to relatively few individual supercomputers and, in general, would assign a one-to-one mapping of applications to machines. Modern HPC users have simultaneous access to a large number of individual machines and are beginning to make use of all of them for single-application execution cycles. One method that application developers have devised in order to take advantage o ...

9 Heuristics-based scheduling of composite web service workloads

Thomas Phan, Wen-Syan Li
November 2006 **Proceedings of the 1st workshop on Middleware for Service Oriented Computing (MW4SOC 2006) MW4SOC '06**

Publisher: ACM Press

Full text available:  pdf(114.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web services can be aggregated to create composite workflows that provide streamlined functionality for human users or other systems. Although industry standards and recent research have sought to define best practices and to improve end-to-end workflow composition, one area that has not fully been explored is the scheduling of a workflow's web service requests to actual service provisioning in a multi-tiered, multi-organisation environment. This issue is relevant to modern business scenarios wh ...

Keywords: QoS, heuristics, scheduling, web services, workflows

10 4th international workshop on middleware for grid computing (MGC'06): A novel

approach to allocating QoS-constrained workflow-based jobs in a multi-cluster grid
Yash Patel, John Darlington
November 2006 **Proceedings of the 4th international workshop on Middleware for grid computing MCG '06**

Publisher: ACM Press

Full text available:  pdf(164.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Clusters are increasingly interconnected to form multi-cluster systems, which are becoming popular for scientific computation. Grid users often submit their applications in the form of workflows with certain Quality of Service (QoS) requirements imposed on the workflows. These workflows detail the composition of Grid services and the level of service required from the Grid. This paper addresses workload allocation techniques for Grid workflows. We model a resource within a cluster as a G/G/

11 Document recognition and classification: Meta-algorithmic systems for document classification

Steven J. Simske, David W. Wright, Margaret Sturgill

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

Publisher: ACM Press

Full text available: [pdf\(289.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To address cost and regulatory concerns, many businesses are converting paper-based elements of their workflows into fully electronic flows that use the content of the documents. Scanning the document contents into workflows, however, is a manual, error-prone, and costly process especially when the data extraction process requires high accuracy. These manual costs are a primary barrier to widespread adoption of distributed capture solutions for business critical workflows such as insurance claim ...

Keywords: confusion matrix, document classification, document indexing, engine combination, meta-algorithms

12 Process and workflow: Argos: dynamic composition of web services for goods

 **movement analysis and planning**

José Luis Ambite, Genevieve Giuliano, Peter Gordon, Mountu Jinwala, Dipsy Kapoor, LanLan Wang, Qisheng Pan

May 2006 **Proceedings of the 2006 international conference on Digital government research dg.o '06**

Publisher: ACM Press

Full text available: [pdf\(227.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This Project Highlight describes Year 3 activities of our Argos research. The purpose of the research is to develop a flexible data query and analysis system based on the web services paradigm. Our application domain is metropolitan goods movement. The project began in August 2003. We seek to blend computer science and social science approaches by developing new data integration tools and applying them to social science research problems. The research has three objectives: 1) to advance computer ...

13 Atomicity and isolation for transactional processes

 Heiko Schultdt, Gustavo Alonso, Catriel Beeri, Hans-Jörg Schek

March 2002 **ACM Transactions on Database Systems (TODS)**, Volume 27 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Processes are increasingly being used to make complex application logic explicit. Programming using processes has significant advantages but it poses a difficult problem from the system point of view in that the interactions between processes cannot be controlled using conventional techniques. In terms of recovery, the steps of a process are different from operations within a transaction. Each one has its own termination semantics and there are dependencies among the different steps. Regarding c ...

Keywords: Advanced transaction models, business process management, electronic commerce, execution guarantees, locking, processes, semantically rich transactions, transactional workflows, unified theory of concurrency control and recovery

14 Gridflow Description, Query, and Execution at SCEC using the SDSC Matrix

Jonathan Weinberg, Arun Jagatheesan, Allen Ding, Marcio Faerman, Yuanfang Hu
June 2004 **Proceedings of the 13th IEEE International Symposium on High Performance Distributed Computing HPDC '04**

Publisher: IEEE Computer Society

Full text available: [pdf](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

While conventional workflow systems have been around for many years, the deployment of analogous systems onto a grid infrastructure introduces a number of unique questions and challenges. Innovative approaches to grid workflow (gridflow) are needed to leverage

the heterogeneity, autonomy, dynamic behavior, and wide-area distribution that characterize grid resources. The Matrix Project carries out research and development to deliver the language descriptions and protocols necessary to build colla ...

15 Information technology and physical space

 Henry C. Lucas

November 2001 **Communications of the ACM**, Volume 44 Issue 11

Publisher: ACM Press

Full text available:  pdf(122.14 KB)

 html(42.79 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

16 On theories, methods and techniques: Designing complex socio-technical systems: a heuristic schema based on cultural-historical psychology

Antonio Rizzo, Simone Pozzi, Luca Save, Mark Sujan

September 2005 **Proceedings of the 2005 annual conference on European association of cognitive ergonomics EACE '05**

Publisher: University of Athens

Full text available:  pdf(429.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents a practical description of an analysis and design methodology for complex socio-technical systems. The basis of the approach is a re-elaboration of the unit of analysis originally proposed by Vygotsky. The method focuses on man-artefact interactions in order to inform the design of new artefacts and patterns of interactions. Depending on the required level of design intervention and on the level of structure of the domain the focus is directed either towards the analysis and ...

Keywords: Unit of analysis, activity theory, cultural-historical psychology, interaction design, socio-technical systems

17 A simulation-based production testbed

 Albert Jones, Michael Iuliano

December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**

Publisher: ACM Press, IEEE Computer Society

Full text available:  pdf(1.09 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

18 Information access and retrieval (IAR): Email classification for automated service handling

 Ross Tailby, Richard Dean, Ben Milner, Dan Smith

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  pdf(422.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe the experience and lessons learned from developing a range of electronic services for a specialist engineering company. We are using a custom workflow management system as the base for a range of services which are offered via a multi-modal portal, using a language-based approach to extracting information from HTML forms, email, and SMS. We describe the email classification experiments we have carried out and discuss the development of customer services based on automatic email class ...

Keywords: Naïve Bayes, T-Route, T-Trans, email, vector methods

19

A situated computing framework for mobile and ubiquitous multimedia access using small screen and composite devices

Thai-Lai Pham, Georg Schneider, Stuart Goose
October 2000 **Proceedings of the eighth ACM international conference on Multimedia MULTIMEDIA '00**

Publisher: ACM Press

Full text available:  pdf(952.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, small screen devices, such as cellular phones or Personal Digital Assistants (PDAs), enjoy phenomenal popularity. PDAs can be used to complement traditional computing systems to access personal multimedia information beyond the usage as digital organizers. However, due to the physical limitations accessing rich multimedia contents and diverse services using a single PDA is more difficult. Hence, the Situated Computing Framework (SCF) research project at Siemens Corporate Rese ...

Keywords: WWW, composite devices, mobile and ubiquitous computing, situated computing

20 **Digital libraries and cyberinfrastructure track: creating information representations for the humanities (part 2): The challenges in developing digital collections of phonograph records**

Catherine Lai, Ichiro Fujinaga, Cynthia A. Leive

June 2005 **Proceedings of the 5th ACM/IEEE-CS joint conference on Digital libraries JCDL '05**

Publisher: ACM Press

Full text available:  pdf(153.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

To facilitate long-term preservation and sustain the utility of phonograph records, an efficient and economical workflow management system for digitization is necessary. We describe in this paper the digitization process for building an online digital collection of phonograph records and our procedure for creating the ground-truth data, which is essential for developing an efficient metadata and content capturing system. We also discuss the challenges of defining metadata for phonograph records ...

Keywords: analog sound recordings, digital library collections, digitization, metadata, music information acquisition and retrieval, phonograph records, preservation, use and access

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1 [A Contextual Based Semantic Modeling Approach to Task-Service Formation in Virtual Organization](#)

William Song, Mingquan Zhou

December 2006 **Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence WI '06**

Publisher: IEEE Computer Society

Full text available: [pdf\(207.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Virtual organizations are considered to be an independent mechanism, which manages to bridge the users' goals and requirements to the grid/web resources and services. To form the workflow for a virtual organization we need to find a sequence of interrelated services (the grid/web resources) matched to given users' requirements. It is crucial to find a semantic description for virtual organizations in order to analyze various components, such as tasks, services, and resources, and hence to make v ...

2 [Virtual transaction model to support workflow applications](#)

Vasudev Krishnamoorthy, Ming-Chien Shan

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2 SAC '00**

Publisher: ACM Press

Full text available: [pdf\(459.17 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: compensation, isolation, transactions, workflow

3 [Supporting virtual organisation alliances with relative workflows](#)

Xiaohui Zhao, Chengfei Liu, Yun Yang

January 2006 **Proceedings of the 3rd Asia-Pacific conference on Conceptual modelling - Volume 53 APCCM '06**

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(343.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Driven by the fast changing service demand-and-supply requirements, virtual organisation alliances are created to adapt highly dynamic B2B collaborations. However, the temporary partnership and low trustiness between collaborating organisations raise challenges to effectively manage collaborative business processes. This paper presents an approach on the basis of a service oriented relative workflow model to support virtual organisation alliances. This approach takes an organisation centred desi ...

Keywords: business process modelling, service oriented computing, virtual organisation alliance

4 Access control mechanisms for inter-organizational workflow Myong H. Kang, Joon S. Park, Judith N. FroscherMay 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01****Publisher:** ACM PressFull text available:  pdf(253.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As more businesses engage in globalization, inter-organizational collaborative computing grows in importance. Since we cannot expect homogeneous computing environments in participating organizations, heterogeneity and Internet-based technology are prevalent in inter-organizational collaborative computing environments. One technology that provides solutions for data sharing and work coordination at the global level is inter-organizational workflow. In this paper, we investigate the access co ...

Keywords: access control, enterprise, organizational security, security, workflow**5 2-2 VRC in engineering: A multimedia workflow-based collaborative engineering** environment for oil & gas industry

Ismael H. F. Santos, Martin Göbel, Alberto B. Raposo, Marcelo Gattass

June 2004 **Proceedings of the 2004 ACM SIGGRAPH international conference on Virtual Reality continuum and its applications in industry VRCAI '04****Publisher:** ACM PressFull text available:  pdf(293.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we discuss the scenario of Petroleum Engineering projects of Petrobras, a large Brazilian governmental oil & gas company. Based on this scenario, we propose a set of application requirements and system architecture to guide the construction of a Collaborative Engineering Environment (CEE) for assisting the control and execution of large and complex industrial projects in oil and gas industry. The environment is composed by the integration of three different technologies of d ...

Keywords: collaborative engineering, collaborative virtual environments, workflow systems**6 Supporting units of work in a virtual organization** Bill ChuApril 1995 **ACM SIGOIS Bulletin**, Volume 15 Issue 3**Publisher:** ACM PressFull text available:  pdf(425.98 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)**7 Distributed systems and grid computing (DSGC): The Pegasus portal: web based** grid computingGurmeet Singh, Ewa Deelman, Gaurang Mehta, Karan Vahi, Mei-Hui Su, G. Bruce Berriman, John Good, Joseph C. Jacob, Daniel S. Katz, Albert Lazzarini, Kent Blackburn, Scott Koranda March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05****Publisher:** ACM PressFull text available:  pdf(314.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Pegasus is a planning framework for mapping abstract workflows for execution on the Grid. This paper presents the implementation of a web-based portal for submitting workflows to the Grid using Pegasus. The portal also includes components for generating abstract workflows based on a metadata description of the desired data products and application-specific services. We describe our experiences in using this portal for two Grid

applications. A major contribution of our work is in introducing seve ...

Keywords: grid computing, portals, resource allocation, scheduling, web based computing, workflow management

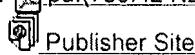
8 A metamodel for virtual enterprises

I. T. Hawryszkiewycz

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

Publisher: IEEE Computer Society, IEEE Computer Society Press

Full text available: [pdf\(788.42 KB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#)

Virtual enterprises are characterized by their dynamic nature and transient work arrangements. This in turn requires computer support systems that go beyond workflow systems to provide support for process emergence and transient team members in such enterprises. Such support systems must be based on a metamodel that is sufficiently powerful to describe virtual work arrangements and present an interface that allows users to quickly form teams, allocate responsibilities, and carry out joint work. ...

9 Team-and-role-based organizational context and access control for cooperative

hypermedia environments

Weigang Wang

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots HYPERTEXT '99**

Publisher: ACM Press

Full text available: [pdf\(2.13 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: cooperative hypermedia, coordination, groupware, process support, role-based access control, workflow

10 Functional and architectural adaptation in pervasive computing environments

N. C. Narendra, Umesh Bellur, S. K. Nandy, K. Kalapriya

November 2005 **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**

Publisher: ACM Press

Full text available: [pdf\(344.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service-oriented computing paradigm encourages the use of dynamic binding of application requirements to the resources needed to fulfill application tasks. Especially in pervasive computing that is characterized by disconnected operation and mobility, the process of using service specifications and dynamic binding becomes critical. For this, adaptation techniques that provide for seamless service composition are needed for user task execution. In this paper we present our approach to enable two ...

Keywords: pervasive computing, service-oriented architectures, workflow adaptation

11 Technical papers: Evaluation of a workflow scheduler using integrated performance modelling and batch queue wait time prediction

Daniel Nurmi, Anirban Mandal, John Brevik, Chuck Koelbel, Rich Wolski, Ken Kennedy November 2006 **Proceedings of the 2006 ACM/IEEE conference on Supercomputing SC '06**

Publisher: ACM Press

Full text available: [pdf\(313.07 KB\)](#)

[html\(2.21 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large-scale distributed systems offer computational power at unprecedented levels. In the past, HPC users typically had access to relatively few individual supercomputers and, in general, would assign a one-to-one mapping of applications to machines. Modern HPC users have simultaneous access to a large number of individual machines and are beginning to make use of all of them for single-application execution cycles. One method that application developers have devised in order to take advantage o ...

12 Grid middleware services for virtual data discovery, composition, and integration

 Yong Zhao, Michael Wilde, Ian Foster, Jens Voeckler, Thomas Jordan, Elizabeth Quigg, James Dobson

October 2004 **Proceedings of the 2nd workshop on Middleware for grid computing MGC '04**

Publisher: ACM Press

Full text available: [pdf\(289.58 KB\)](#)

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We describe the services, architecture and application of the GriPhyN Virtual Data System, a suite of components and services that allow users to describe virtual data products in declarative terms, discover definitions and assemble workflows based on those definitions, and execute the resulting workflows on Grid resources. We show how these middleware-level services have been applied by specific communities to manage scientific data and workflows. In particular, we highlight and introduce &# ...

Keywords: data discovery, data grid, data integration, portal, provenance, virtual data, workflow

13 Integrating synchronous multimedia collaboration into workflow management

 Michael Weber, Gerhard Partsch, Siegfried Höck, Georg Schneider, Astrid Scheller-Houy, Jean Schweitzer

November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge GROUP '97**

Publisher: ACM Press

Full text available: [pdf\(1.20 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: brokerage, conference assistant, teleconferencing, trading, workflow management

14 Flexible coordination with cooperative hypertext

 Weigang Wang, Jörg M. Haake

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98**

Publisher: ACM Press

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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Bioinformatics (BIO): A complex biological database querying method

 Jake Yue Chen, John V. Carlis, Ning Gao

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: [pdf\(226.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Many biological information systems rely on relational database management systems (RDBMS) to manage high-throughput biological data. While keeping these data well archived, organized, and integrated in a common repository is still a challenging task, performing complex queries, i.e., explorative and abstract *ad hoc* user questions in biology, is an even formidable task often substituted by writing complicated software programs. In this work, we propose a "complex query modeling" method to ...

Keywords: complex queries, database management system (DBMS), query modeling

16 Next generation games: Wireless sensor network based mobile pet game

Liang Liu, Huadong Ma
October 2006 **Proceedings of 5th ACM SIGCOMM workshop on Network and system support for games NetGames '06**

Publisher: ACM Press

Full text available:  pdf(710.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless sensor network offers an opportunity to introduce different kinds of physical data into mobile pet games, which enriches recreational elements and practical elements in mobile pet games. Motivated by this, we propose a novel architecture for integrating sensor networks into mobile pet game. In particular, we utilize an environment aware self-reconfiguration mechanism to build a mobile pet gaming platform. This mechanism can effectively support task reconfiguration on each sensor node ...

Keywords: gaming platform, mobile pet game, reconfiguration, wireless sensor networks

17 Grid-Based Galaxy Morphology Analysis for the National Virtual Observatory

Ewa Deelman, Raymond Plante, Carl Kesselman, Gurmeet Singh, Mei-Hui Su, Gretchen Greene, Robert Hanisch, Niall Gaffney, Antonio Volpicelli, James Annis, Vijay Sekhri, Tamas Budavari, Maria Nieto-Santisteban, William O'Mullane, David Bohlender, Tom McGlynn, Arnold Rots, Olga Pevunova

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

Publisher: IEEE Computer Society

Full text available:  pdf(357.64 KB) Additional Information: [full citation](#), [abstract](#), [citations](#)

As part of the development of the National Virtual Observatory (NVO), a Data Grid for astronomy, we have developed a prototype science application to explore the dynamical history of galaxy clusters by analyzing the galaxies' morphologies. The purpose of the prototype is to investigate how Grid-based technologies can be used to provide specialized computational services within the NVO environment. In this paper we focus on the key enabling technology components, particularly Chimera and Pegasus ...

18 A gaze contingent environment for fostering social attention in autistic children

Rameshsharma Ramloll, Cheryl Trepagnier, Marc Sebrechts, Andreas Finkelmeyer
March 2004 **Proceedings of the 2004 symposium on Eye tracking research & applications ETRA '04**

Publisher: ACM Press

Full text available:  pdf(334.06 KB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper documents the engineering of a gaze contingent therapeutic environment for the exploration and validation of a proposed rehabilitative technique addressing attention deficits in 24 to 54 months old autistic subjects. It discusses the current state of progress and lessons learnt so far while highlighting the outstanding engineering challenges of this project. We focus on calibration issues for this target group of users, explain the architecture of the system and present our general wo ...

Keywords: attention, autism, design workflow, eye tracker calibration, gaze contingent

environment

19 Physical spaces, virtual places and social worlds: a study of work in the virtual

 Geraldine Fitzpatrick, Simon Kaplan, Tim Mansfield

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work CSCW '96**

Publisher: ACM Press

Full text available:  pdf(1.33 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: CSCW, ethnography, grounded theory, social worlds, spatial metaphors, systems administration

20 Virtual enterprise co-ordinator—agreement-driven gateways for cross-organisational

 **workflow management**

Heiko Ludwig, Keith Whittingham

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Today's Workflow Management Systems (WfMS) do not distinguish between an external view of a process that is visible outside the organisation and its internal details. Their interfaces are generally aimed at the internal user. This is a problem if one organisation (provider) wants to perform a process on behalf of another (requester) so that it can be initiated and accessed by the requester through an automated interface and, vice versa, that the results can be reported back. This issue gains impo ...

Keywords: agreement, gateway, virtual enterprise, workflow management

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